AVATION

The Oldest American Aeronautical Magazine

MAY 17, 1926

Issued Weekly

PRICE 15 CENTS



VOLUME

SPECIAL FEATURES

NUMBER 20

METAL CONSTRUCTION OF AIRCRAFT
THE PITCAIRN FLEETWING
MILITARY AVIATION BILL PASSES HOUSE

GARDNER PUBLISHING CO., INC. HIGHLAND, N. Y.

225 FOURTH AVENUE, NEW YORK
butered as Second-Class Matter, Nov. 22, 1990, at the Poet Office, at Highland, N Y



PROVIDED PERFECT IGNITION FOR THE WONDERFUL FLIGHT OF LIEUT, COMMANDER BYRD TO AND FROM THE NORTH POLE



DEPENDABILITY WAS REQUIRED BY BOTH BYRD AND WILKINS SCINTILLA AIRCRAFT MAGNETOS WERE THEIR CHOICE.

SCINTILLA MAGNETO COMPANY, INC. Factory and Offices SIDNEY, NEW YORK

Contraction to U. S Army and Navy SECUNTALITY Sand for Descriptive Booklet

Flor France to Advanture, Plant Manne ATTATION



susveniers is as available to the private builder or operator as to the United States Ask The Man Who Owes One.

THE "WASP"



The "Wasp" marks a turning point in engine types for "fighting" planes. For the first time the dry weight of an air cooled engine compares favorably with that of the most efficient water cooled types. Its installed weight per horsepower is considerably less.

PRATT & WHITNEY AIRCRAFT CO HARTFORD CONNECTICUT

LANGUE PACKLITIES

MUNICIPAL FIELD AND CONNECTICUT RIVER

ON ARRESTS HAPS

AVIATION MAY 17, 1926

CONTENTS

TEL New Year Steelash Metal Construction of Arginson TII The Privates Planteur

GARDNER PUBLISHING COMPANY, Inc., Publishers



MODEL

AND 19 LES. PER SG IN COMPRESSION

KEYPORT N. J. U.S.A.

Heater had such westerful server from your CortaeReed pre-

Curtiss-Reed Propellers

Withstand Spray - Rain - Hail - Heat - Cold LET US OUDTE ON A PROPELLER FOR YOUR SHIP USE THE BLANK

THE CORMS APPRICADE & MOTOR CO. DOC.

for the following socialistics:

Name of Shin. Motor Model H.P. R.P.M. (Full shortle, level floid) Discrete of Propeller asse used Pitch If sewed, state sear ratio

Arteal bish speed with agreent propeller----NOTE: We find that many pilots over-estimate efficient propeller.

Maximum possible districter for new peopellerthe maximum diameter you can owing and still have proper

Name and Address



have been qualifies a few years are. The Manifellius ex-

A Great Achievement Cooperative Flying Clubs a to the old the extent errors on the development of

Metal Construction of Airplanes

4 Detailed Discussion of the Conversion of the Navy TS Plane into the Durslawin Built F4C-1 Plane. The Principles of and Reasons for the Cambered Spar.

The most evaposess of explane to a related of on exact that the PAGA has a most precedity weathing IF advention to each once. The brief dimensional details of the Thi desire are as follows: Sons, 15 fb.; grand limits, 21.4

> All Metal But Lichter The F4G-1, except for the fabre covering at the way and ted surface and of the fursing, a oss-

As a preferency, a very employe stress analyses of the



A pound new of the F4C-1 New Pagins (Pfeigle Whethers). The asymmet agging at the new year of the upper bing a due to the analysed feature of the sport which is fully discount in this works.











The burger of the first street filters upon the proper status.





Femilidity of Ring Joints



Lieut, Coendr. Bard Flies to North Pole

Stettin, Germany to Be Large Airport

Under these arrangements, when a plint of American or

Canadian Border Flying Regulations

Military Aviation Bill Passes House FT HE PLAN of the War Desertance for a December of the Property of Trees of Valledgraffs, Se. In the sentences

May 17, 1906

General Brancker, President, Royal

Russia Buys Aircraft Engines

The Madrid to Manila Flight

IN RESUMABLY EXCOURAGED by the about unearly

Second Lean Distance Sussisk Flight Nat Successful as Previous South Atlantic Undertaking tion, still own by belond by excremence. Moreover, at

The time States VIV II across Divines 400 for present and factors the state of the Madrill Manufa right

dored marker. He best were bloomed, has otherwise her.

to And Is, for Acre, Isdia, and the 900 miles was opered.

A Danish Long-Distance Flight

S.A.E. Aeronautical Meeting in August

The National Balloon Race

Army-Navy Standards

Standardustion of Aircraft Parts, Undertaken Jointly by Army and Nacy, Will Enable Closer Cooperation from Procurement Standpoint. A Great Advantage to the Aircraft Industry,

FINES ARMY ATE SERVICE and the Bosson of Assa-

sed that the corresponding News Around Pastors

May 17, 1920

Inspectors shall see to it that, after the date

ings undeded in the present list to July 1, 1826"

to must an entroly new Standards Book which will reclude the AN Standards. This book is distributed to all Art Ser-

The Pitcairn Fleetwing

A Free-Senter Possensor Plane With a Carties C.6 Envise-

turning general manchiner thousehout, but the nebul walders

May 17, 1926

As originally sonorred, the Pricure Physical was

to be used for the sole purpose of carrying pussengers



of. Where the latter purpose could be recorporated we transforing the prisony object, if was done, and the Figure 1 communities for elect large from the drying field measurements (lightle of 30) force for the method of the common of the com

the natural tensionity very expt.
The order natural size of essertation the
Third tension tension panel up or essertation.
This tension is not called the tension of the
Third tension is not only the tension of nother half
Third tension and essertation relation which tending
Third tension are not on one at tension tension of the
Third tension are not not not tension tension of the
Third tension and tension of the tension of the
tension of the tension of the tension of the
tension of the tension of the tension of the
tension of the tension of the tension of the
tension of the tension of the tension of the
tension of the tension of the tension of the
tension of the tension of the tension of the
tension of the tension of the tension of the
tension of the tension of the tension of the
tension of the tension of the tension of the
tension of the tension of the tension of the
tension of the tension of the tension of the
tension of the tension of the tension of the
tension of the tension of the tension of the
tension of the tension of the tension of the
tension of the tension of the tension of the
tension of the tension of the tension of the
tension of the tension of the tension of the
tension of the tension of the tension of the
tension of the tension of the tension of the
tension of the tension of the tension of the
tension of the tension of the tension of the
tension of the tension of the
tension of the tension of the tension of the
tension of the tension of the tension of the
tension of the tension of the tension of the
tension of the tension of the tension of the
tension of tension of the tension of the
tension of t

the day and other large range at the day around on the control of the control of



making high speed the pressary scondovation in in Emple the mice. The familing preper, withern contain, not despond to say, the beaper of the ten parallel table being at the tap, affects meybe grown second the chealthes of the passes of fact that feel said, at the same them, smoothing even and fact that feel said, at the same them, smoothing even and fact that feel said, at the same them, smoothing even facilities up for said-said-said priving good vision and facilitation of artifaction of the ventile but the case in n e

of rad is operat

Wing Construction
The rong structure is of the supple has highest type
a presented straper. The upper and bover are
many me and of the pinte non-main individual, will
acception of the strat and not Hillings, non-executive
map the accepting of those. The variety are of order
cereficies with 1 section spars of system and follow is

Contractional Attack of the Phinton Floritory. The top and my contract their this millest or interferent and determined of the deposition of the analyzement and their determined of the force develop about Acade or the total and advantage clarent beams in or their source of the total and advantage clarent beams in or their source of the total states and physics.

as a subdice by all 1965 and fishing. The Darth type of the Control of the Contro

of cardion seatherine. The Varie would of matter and of cardion seatherine in the cardion of the cardion. The mean of world is in a character to the cardion. The timer most world is the cardion of the

of the plotted better slight, or suggest allestering the first sign of the first sign of the first sign of the first sign of the state of the sign of the first sign of the state of the sign of the s

The season of th

daye, brasiled so, and tro-cets of vicer and net of p loos, spanyed as

Wind Tunnel Tests and Performance The design of the plane may decided and the performance related large and femal tests stand out of MIT on a rate match 1/10 minutes. Director's showed a maximum term rated 4 for minutes are accounted in the standard of t



The state of the s

et Brow Allica ends or 2006. Ketelde for its repel algeb

(Total words 2001 to 1

The Chicago Agreementical Service

Artificial Fog Dispersal Experiments

180 ha of 1550 nm in untal for electrical precipitation over an open field

Model Designation of Naval Airplanes A Full Statement of the System Employed in Designating Naval Airplane Designs.

Chill Brian & O.

Widely Arm Com-con Result agency Com-Constitutes Agency Com-

The letter "Y" agendes a honester-thousant coult to "E"

I see TH Con't 14mi ins. 78 Con't 14mi less to 1675

locates days first form 1000 hours 700 deputations

TION May 12, 1931

| No. | No.

NOTE THE STATE OF THE STATE OF

Training Aphier Corra in 1901

Philadron part
Brocker in VET Storyed by seeding believes a seed of Verboard Advanced Stocker (Parker Verboard Advanced Advance

deployer, Larger Energ also bush proving also VA-TT private also VA-TT

1 (The District should then 1800 how The Meet (The Security Let 2007 1900 how The Security Le

The Indian's has beyond by he has sented from Turking in greated the field. The Developer by plans as the Energous where so the Thingdom's how the neither because, and with the a services and frought over them. Developing the Persons the surport of Adriana, Greson, and to Brisslew, as particularly the Company of the Company of the Entire part of the Adriana Stor. However, and haddings for these the trobuse, polar and voicely Developer's zer on the process of construction.

Weight Jam Cop 1994

Government offers a specied of year view exploitation for the special polarization of the control of the control of the for company, interactive and the stated or Mar I, knowledge to for company, interactive and proportions, or under view a year of Table Magnater in explanations, for under view and to Government of the purpose of guiding in teach worth in Green of the control of



DESIGN AND PERFORMANCE

Have Received World-Wide Recognition

It was, then, no chance circumstance which wrompted Caut. Rene

Fonck, French "Ace of Aces," and leading allied flier in the World War, to select

THE NEW 3-ENGINED SIKORSKY PLANE

For his New York-Paris Non-Stop Flight which is planned for the summer of this year.

Nev 12, 1956

The NEW YORK TIMES, recognized as America's leading conservative newspaper, in a 700-weed editorial entitled "Another Non-Stop Flight", states that the Sikorsky model was Capt. Fonck's choice "after he had made the rouseds of French, English and American shous."

THERE ARE 13 SUCCESSFUL SIKORSKY DESIGNS FOR EVERY COMMERCIAL PURPOSE



SIKORSKY MANUFACTURING

250 W. 57TH ST., NEW YORK CITY

Rosseselt Field, WESTBURY, L. L.

AIRPORTS AND AIRWAYS

Meamouth, III

Hartford, Conn.

Salt Lake-Los Angeles Air Mail Completes of the Red makes operation of the Salt Lake-



WACO



REAL PERFORMANCE IN A THREE

The unprecedented large demand for the Waco is the result of the unanimous recommendation of pilots: a spontaneous but nortive excression of preference

WACO DISTRIBUTORS

COCCUS CAMBRIDADE D. Sell. Products. N. C. the America State Company of Management and State of State (State Office of State Office of State (State Office of State Office of State Office of State (State Office of State Offi

ADVANCE AIRCRAFT CO.



135 m.p.h. 600 lb. Pay Load RYAN M-1

"The Plane That Paus A Profit"

The Alexander Eaglerock IOWA ILLINOIS, MICHIGAN, WISCONSIN DURING MAY AND JUNE

ALEXANDER! Agrenite SPRING SALE

CANLCA Spares We have a very

LUDINGTON EXHIBITION CO., INC.

Chicago, III.

Meline, III.

At Your Service

Aero Supply Mfg. Co., Inc

Manufacturers and Dombason Airplane Accessories

and Supplies

Call on us for anything. We will help you,

College Point, Long Island, New York,

Preparations were completed some works ago as Makes

Memphis, Mo.

abroady here presented for the correspon. The event is not on By consiling year resp. was will see that the field will

WOODSON EXPRESS

FOR PERFORMANCE, RELIABILITY MA. MY. THE WOODSON EXPRESS IS UN.

FOR EXPRESS, MAIL AND PASSENGER LINES, TAXI SERVICE, MAPPING, SKY.

It Will Pay You Well To See This Plane Before You Invest In Other Equipment.

We sell glady got a decreased surface obligates, as any most the other strongs to visit our field as flows.

WOODSON ENGINEERING COMPANY

EQUALED.

Fort Wayne, Ind.

Herten, Mass.

Amountment has been made that Capt. Corned H. 19-88s. Day Harlaford, furnous greaters adder of the Boston.

Nitrate New FINDSH....GLOSS PREMENTED DOPS

Wests for Estamphers. Perry , Austro M16 Co . States Island . N. Y.

Bargain in Big Ship SAFE, RELIABLE USED BREGUET

for 500 de Ducham controlles throughout empod. new Franch rowman on want 100 HP. Ressalt motor (home 1500 \$27M1).

Will now 1290 by our of one field a force will not Earthur place day, parameter or consecutive. Ship may any to fig. place of tourse power. Sell og formerless, seegle 2200 for.

> SET UP BEADY TO FLY AWAY \$4,500 Extra Motors and Parts in Stock

YACKEY AIRCRAFT COMPANY

Seamless Steel Tubing

ROUND, STREAMLINE, ETC. STRAIGHT CARBON

CHROME MOLYBDENUM SUMMERILL TUBING COMPANY

Approved by U. S. Army and Navy EMMEDIATE.

PRODUCTION SHIPMENT VAN SCHAACK BROS CHEMICAL WORKS

2258 AVORDALE AVE CHICAGO, ILL.

ARE EQUIPPED WITH OUR SHOCK ARSORRER CORD Personn in the Manufacture of Bartic Cord for

Fells Laupped for the Largest Reparements on J. W. WOOD FLASTIC WER CO.

New York Office-45 E. 17th St.; Conells-32 St. Pater St., Montreel

"L'AERONAUTIQUE"

1 year - 90 france

Marine Corps Air Orders

NITRATE DOPE

First Levit Erms C. Whindred, A.S., McCook Field, to First Level Phillips Malvalle, A.S., NaCook Field, in

Transfer of Sec. Land Mindel Alana Galdens, & S., to

Navy Air Orders

Santi Jahm H. Delpes del Ser Ship, Papit Sonal,

See Land C J. Chappel det NAS, Personale to M.D.

See Lond C. L. Mershall det N.A.S. Pennavia to M.B. See Lieut P. A. Shiedler for N.A.S., Personnia, to M.B.,



Prefer AVIATION Weekly

CLASSIFIED

\$270.00. Palmer & Fix, Torrance, Calif.

May 17, 2926

ADVERTISING 80 CENTS A WORD, MINIMUM CHARGE \$150 PAYABLE IN ADVANCE

ADDRESS REPLIES TO NON NUMBERS CARE AVENTION IN FOURTH AVE. NEW YORK

FOR SALE: New OTS Stocked 51 752-00, OTS motors WANTED Paint with 3-place july, on arrange perma

The Weekly Issue of AVIATION

That You Miss become you are not a regular administration may are not a which, same about, probate or advertisation of solid, was could have used If you are a seroes or a crobes flot AVIATION as an

if publishes more service and transmitted flying new than appears in tery models and more separated it is NS.W3 when it services in AVIATION

AVIATION The Only Associate Accord Worlds

The Older Assessed

FOR SALE Broo-Stendard Evolute condition DE

WANTED: To trade, racing one, Stage conter. Motor or ner is surjend over them 5180 rg.m. Ozz out approximately \$5,000 Per good play, preferally Juney or

need advertising to a mostly than the three leading American menthly aircraft magazines com-

(X стиментерного филогорования принцентри наменального принцентри и принцентри на при

Aircraft Pilots and Operators as shown by an independent and thorough canvass of the field. One of the larger and your accounts advertises agencies in the United States recently decided, or

A lat was obtained continues the names of 1667 operators and pdots. The lat was compiled from Decree the month of April 1925 the adventume arrange and a constronum to 1613 mores on the

AVIATION is in a class by itself:

An Overwhelming Majority of

MORE THAN 2 1-2 AS MANY OPERATORS AND PILOTS READ AVIATION THAN READ ITS NEAREST COMPETITOR.

FIRST

THE REPLIES REVEALED AN OVERWHELMING PREFERENCE FOR AVIATION AMONG THOSE WHO READ MORE

AVIATION is perpaid to ferrol, convinces provided the same oversholding profession on the part

AVIATION is

in readers' interest; i. e. - in timely material of interest to those actually engaged in acrenautic activities.

225 Fourth Ave., New York, N. Y.

May 12, 1925 ircraft Service Director WHERE TO PROCURE EQUIPMENT AND SERVICES

HAND FUEL PUMP PIONEER INSTRUMENT COMPANY WASHINGTON PARTS SHAFFMOODER



Keeping Abreast CAS valve plane attended to the Castlett GLISSON FOR sale \$5.12. Creds can from held \$27.00 where make for Yards salesed, site \$25.00 year attended to \$25.00 years attended local \$25.00 to \$45.00. See Secular \$2.00 years attended with materia. \$250.00 years for the despite Streether \$45.00 years \$25.00 years \$2

if used regularly this advertising spacewill pay for itself many times over

AVIATION MONUMENTAL AIRCRAFT CO.

NEW YORK CITY

_ LIBERTY MOTORS _ "STALL-PROOF" PETREL

Water For Details on Our Conservated Models Four and Five HUFF DALAND AIRPLANES, INC. Air Spec 10215D SEAMLESS STEEL TUBING

C FAVETTE TAYLOR M E. Country Medical Enforce Manufactic Intents of Technology Company, Mars. 1425 Truckle St. DECEDET, MICH SERVICE STEEL CO. Sanutial in Assessment States and Marko Engree

DECATUR AIRCRAFT COMPANY WALLACE AIRPLANES Construction Interchange the Life Worse New and Eard Ships for Sale Pers for Difficient or Standard II Shine

VACKEY TRANSPORT Electy II manne. Loudon speed as 33 ardes per hear, high speed 125 mg h., under heed 2000, ording with leed 23,000 ft. dawdama construences the suppleme. Best per formers they over known. From \$1,000.00. Yarken kinerali Co., Yacker's Checkerbaard Akrolane Field DECREES From S. Smooth Control Policy Park, ill.

Ask Our Advertisers

AIRCRAFT SERVICE DIRECTORY CONTINUED

Diversion A Z W POLICE Only Physical made to ness street Grade "A" BASKELITE MANUFACTURING CORPORATION LUDINGTON EXHIBITION COMPANY

Draiel Grggenheim School of Acronautics

AIRPLANES - MOTORS - SLIPPLIES

IRRECTION ARCEAST CORPORATION

SHIPS FOR IMMEDIATE DELIVERY

INSPA. . \$700.00 & EP COMMIT ONS HISSO REENT 200.00 COMMIT KS BRAUGHT CAS STANDARD SPECIAL COS. BLOCK, METAL PROP.

Astro Della-

HIS WASHINGTON HAVE VINICE CALIFORNIA The Reed Propeller (Panels) FORFICE dustrial Aviation For particulars arely to the

The Detroit Aero Motors Co. 19331 CHARLEVOX AVE

and complete line source for some.

Gred and new GES marry, amplets pury and manhou FLOTATION GEAR

BETTER THAN EVER Payagon Engineers, Inc. Baltimore, Maryland

ME FLYING BOAT FOR SALE. Lat to staffed new Wright E-2, 190 HP steets, new come and reinforced bettern half amounts dead

cash Lawar for Chesgo son Was Palas Beach, Fin. it nicrosted R P. APPLEGATE,

Visit to longer reads to GC 1 rates with reader. Our stiller have dear still \$2000 with with a period server of marks with loss operations. \$1000 for finding gards gross. \$1000 for finding gards gross. \$1000 for finding gards are finding and the finding gards are finding and the finding still the finding to the still finding the still the finding to the still finding the still the finding to the still finding the still the finding that the finding the still finding the still the finding that the still find the finding that the still find the finding that the still find Bronneys, MA

Additional A SEEA, 111 J 5071; NEW TORK AT U. S. LICKNEEZ Carlos Arrapas & Mort Carlos Carlos

New SYS RSI Redire Madeetss . Sto on each

LE RHONE 80 & 120 H P ENCINES. TIPS & SMITH INC.

BERLING D-S1 Booster Equipment

AIR BAGS, PLOTATION and PUSELAGE AIR BAGS TO Alex Rose, Bira, Corner and Folice Week THE R.F.O. COMPANY II Sales Boar Authorit Survey Carland

First Frieg in Advertises, Please Section AFLETION



The Travel Air Commercial Biplane, three seater, open cockpit, powered with a Wright Whirlwind 200 H.P. air-cooled engine. Send for Bulletin No. 8

WRIGHT

WRIGHT AERONAUTICAL CORPORATION Paterson, N. J., U. S. A.